

09871435.03104
T0T650"584T2860

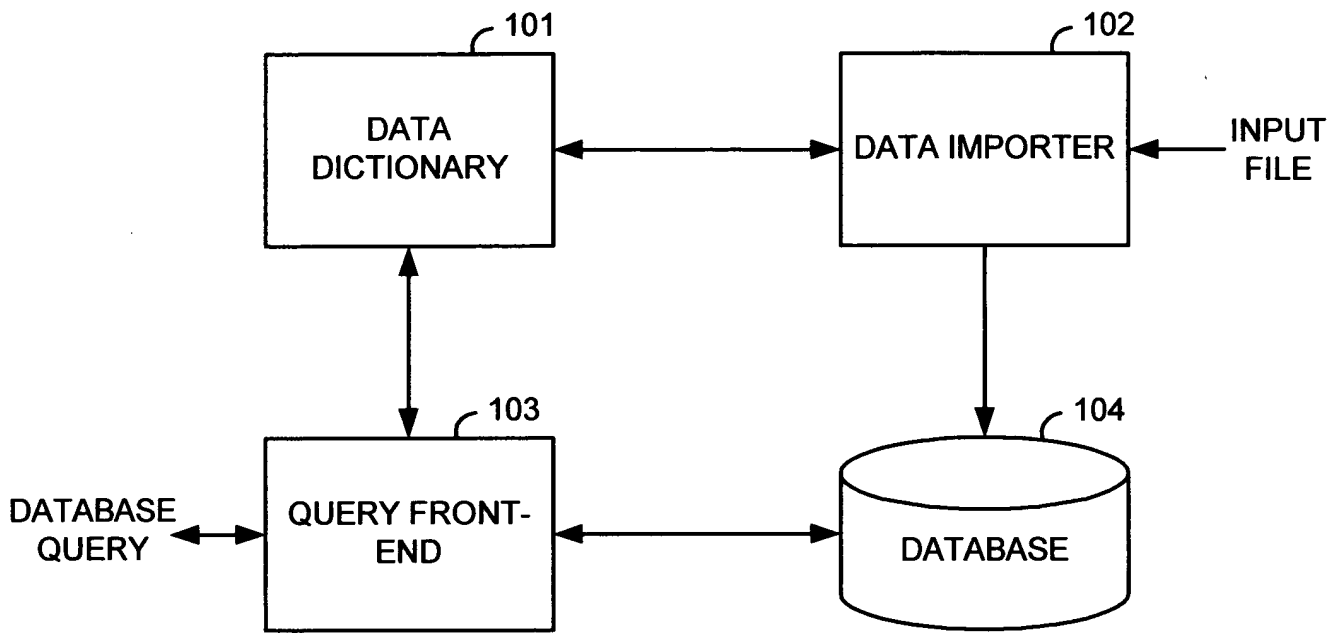


FIG.1

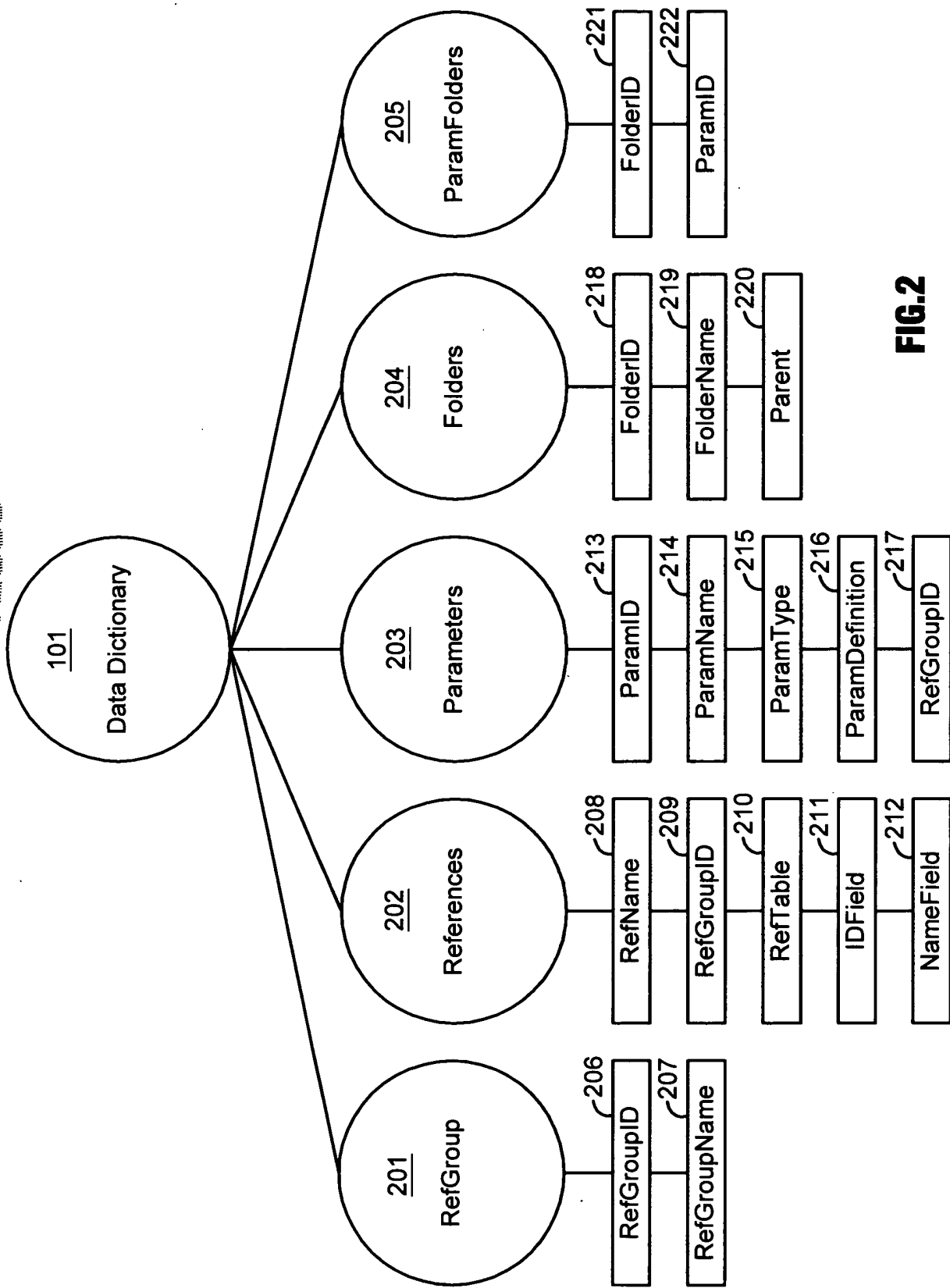


FIG.2

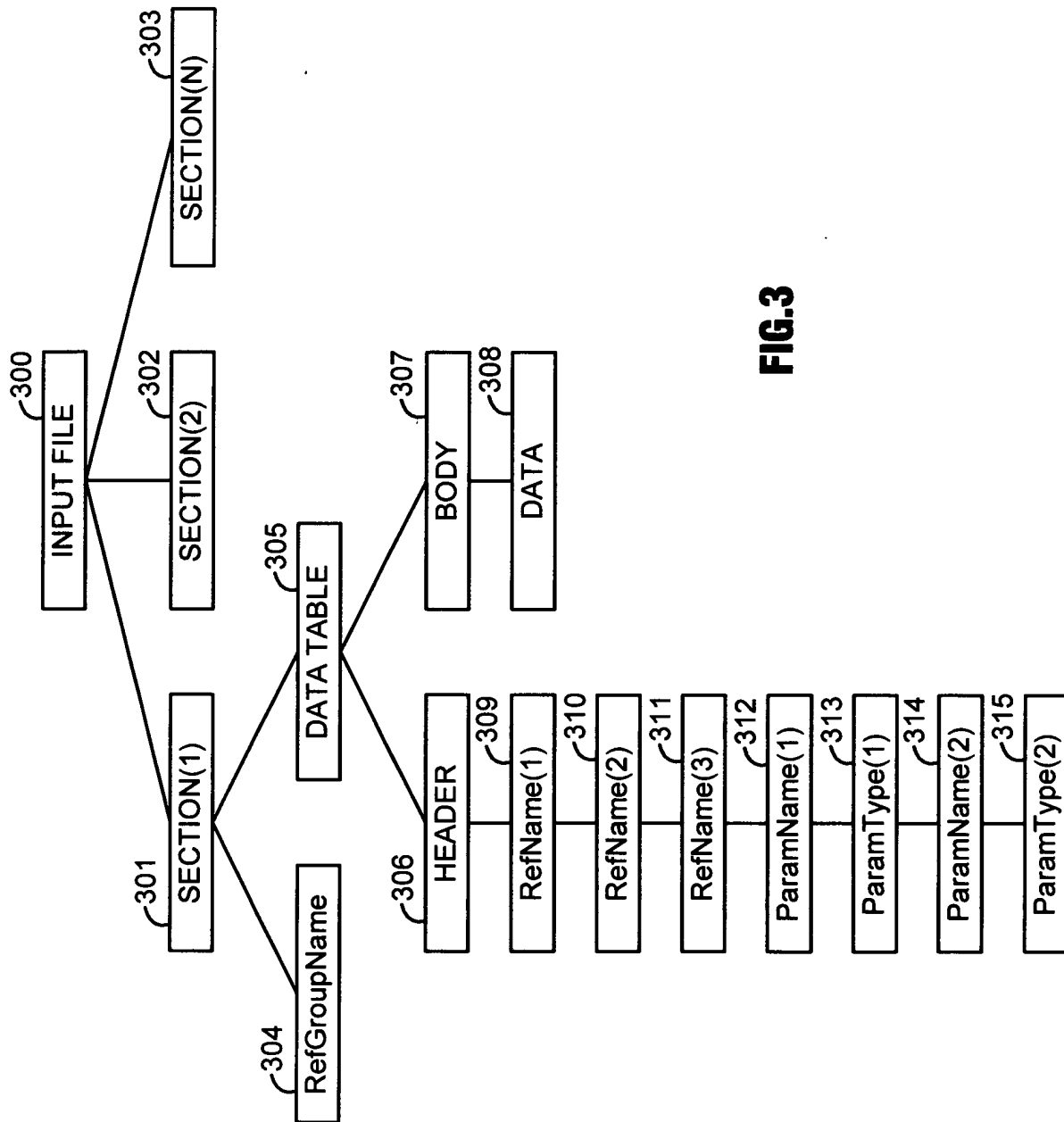


FIG. 3

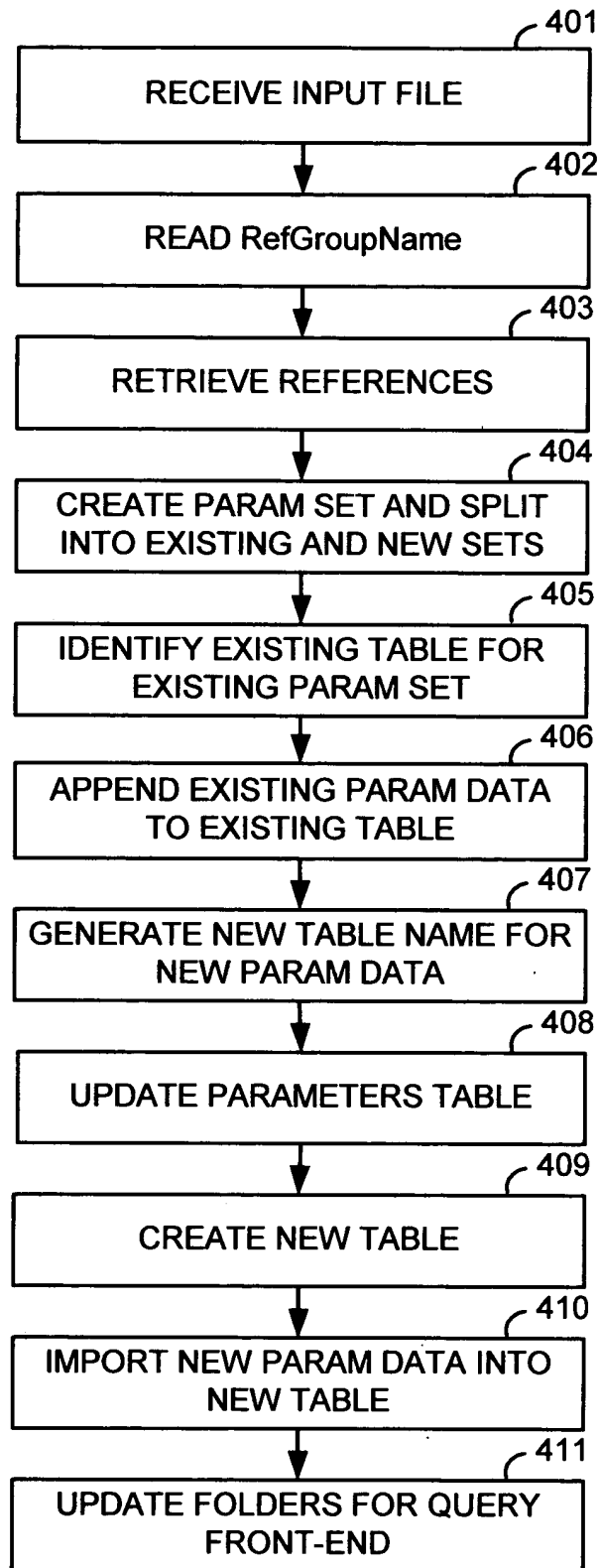


FIG.4

0937485-03101
TOP SECRET 58472860

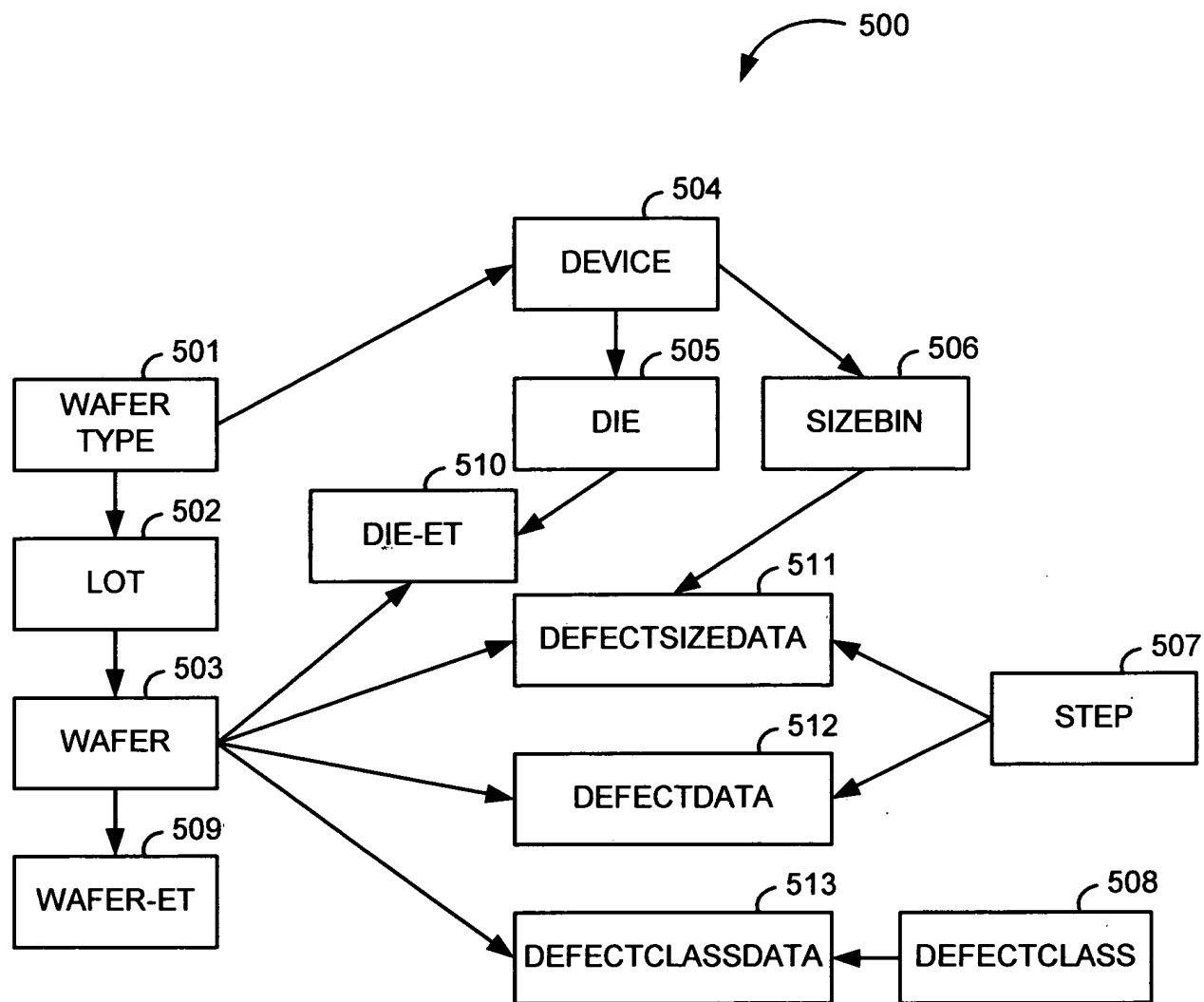


FIG.5

RefGroup

| RefGroupID | RefGroupName | 601 |
|------------|-----------------|-----|
| 1 | DeviceAttr | 602 |
| 2 | LotAttr | 603 |
| 3 | WaferAttr | 604 |
| 4 | DieET | 605 |
| 5 | DefectSizeData | 606 |
| 6 | DefectData | 607 |
| 7 | DefectClassData | 608 |

FIG.6

References

| RefName | RefGroupID | RefTable | IDField | NameField | 701 |
|-------------|------------|-------------|---------------|-----------------|-----|
| Device | 1 | Device | DeviceID | DeviceName | 702 |
| Lot | 2 | Lot | LotID | LotName | 703 |
| Wafer | 3 | Wafer | WaferID | WaferName | 704 |
| Die | 4 | Die | DieID | DieXY | 705 |
| Wafer | 4 | Wafer | WaferID | WaferName | 706 |
| Wafer | 5 | Wafer | WaferID | WaferName | 707 |
| Step | 5 | Step | StepID | StepName | 708 |
| SizeBin | 5 | SizeBin | SizeBinID | SizeBinRange | 709 |
| Wafer | 6 | Wafer | WaferID | WaferName | 710 |
| Step | 6 | Step | StepID | StepName | 711 |
| Wafer | 7 | Wafer | WaferID | WaferName | 712 |
| DefectClass | 7 | DefectClass | DefectClassID | DefectClassName | 713 |

FIG.7

Parameters

| ParamID | ParamName | ParamType | ParamDefinition | RefGroupID | 801 |
|---------|-----------|-----------|----------------------|------------|-----|
| 1 | Det1 | Numeric | DieET.Det1 | 4 | 802 |
| 2 | Dsd1 | Numeric | DefectSizeData.Dsd1 | 5 | 803 |
| 3 | Dd1 | Numeric | DefectData.Dd1 | 6 | 804 |
| 4 | Dcd1 | Numeric | DefectClassData.Dcd1 | 7 | 805 |
| 5 | Dcd2 | Numeric | DefectClassData.Dcd2 | 7 | 806 |

FIG.8

Folders

| FolderID | FolderName | Parent | 901 |
|----------|-----------------|--------|-----|
| 1 | DieET | 0 | 902 |
| 2 | DefectSizeData | 0 | 903 |
| 3 | DefectData | 0 | 904 |
| 4 | DefectClassData | 0 | 905 |

FIG.9

ParamFolders

| FolderID | ParamID | 1001 |
|----------|---------|------|
| 1 | 1 | 1002 |
| 2 | 2 | 1003 |
| 3 | 3 | 1004 |
| 4 | 4 | 1005 |
| 4 | 5 | 1006 |

FIG.10

Input File

RefGroup=DefectClassData

| Wafer | DefectClass | Dcd1 | Dcd2 | Dcd3 | 1101 |
|-------|-------------|------|------|------|------|
| 1 | 1 | 1 | 2 | 3 | 1102 |
| 1 | 2 | 4 | 5 | 6 | 1103 |
| 1 | 3 | 7 | 8 | 9 | 1104 |

FIG.11

Parameters

| ParamID | ParamName | ParamType | ParamDefinition | RefGroupID | 801 |
|---------|-----------|-----------|-----------------|------------|------|
| 6 | Dcd3 | Numeric | DCData1.Dcd3 | 7 | 1201 |

FIG.12

Folders

| FolderID | FolderName | Parent | 901 |
|----------|-----------------|--------|------|
| 5 | New Parameters | 0 | 1301 |
| 6 | DefectClassData | 0 | 1302 |

FIG.13

ParamFolders

| FolderID | ParamID | 1001 |
|----------|---------|------|
| 6 | 6 | 1401 |

FIG.14

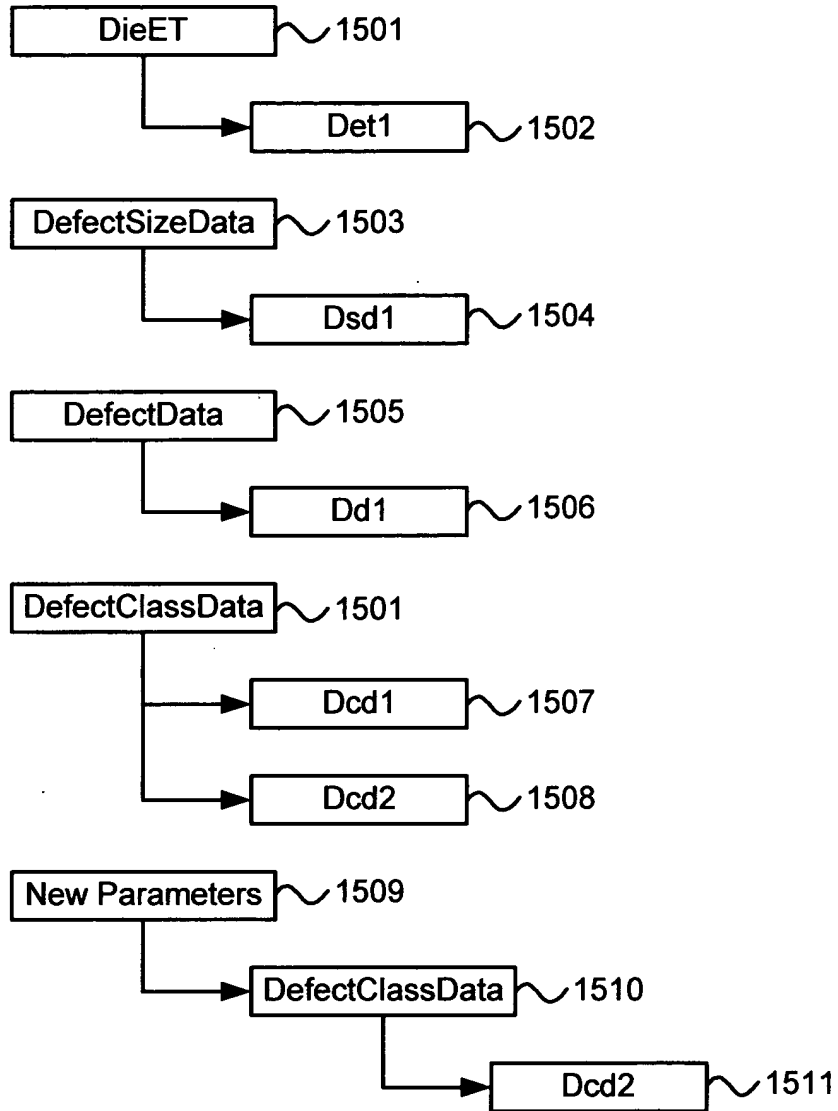


FIG.15